

VLADIMIROV, G. YE., PETISHENKO, I. A., URINSON, A. F.

Blood - Corpuscles and Platelets.

Regeneration of diphosphoglyceric acid in the erythrocytes of man and their hemolyzates. Ukr. biokhim. zhur., 22, no. 3, 1950.

9. Monthly List of Russian Accessions, Library of Congress, October 1957 Uncl.

URINSON, A. P.

Chemical Abst.  
Vol. 48 No. 8  
Apr. 25, 1954  
Biological Chemistry

(4) w/w

Comparative biochemical characteristics of erythrocyte metabolism. G. B. Vladimirov, T. P. Asmarin, and A. P. Urinson [S. M. Kirov Military Med. Acad., Leningrad]. RADIOTOKSYKA 18, 582-93 (1953).—Metabolism was studied of nucleated erythrocytes of birds, erythrocytes of cattle, hog, rabbit, and human. Radioactive P compds. were used. The rate of exchange of P of adenosinetriphosphoric acid was highest, followed by hexose phosphates and diphosphoglycerate and phytate. Rate of metabolism of nucleated erythrocytes of the goose approximated that of the non-nucleated of man but was below that of the rabbit. In mammals the rate of erythrocyte metabolism decreased in the following order: rabbit, man, hog, bull. The metabolic rate and P compds. of human erythrocytes in umbilical blood and in blood of adults were closely alike. Glycolysis presents the only source of energy in human erythrocytes. In the rabbit glycolysis and aerobic processes are of equal value as energy sources. Only 65-80% of the erythrocyte P is of the adenylic acid type, the content of which in human erythrocytes is very low. B. S. Levine

URINSON, A. P.

✓ The fate of stored erythrocytes in the blood stream.  
G. E. Vladimirov and A. P. Urinson (S. M. Kirov Military  
Med. Acad., Leningrad). *Ukrain. Biokhim. Zhur.* 27, 277-85  
(1955) (in Russian).—Rabbit erythrocytes kept *in vitro*  
at 37° for 8, 12, and 18 hrs. and then injected into the blood  
stream of another rabbit are rapidly destroyed. The ra-  
pidity with which the erythrocytes are destroyed depends  
upon the length of time they have been kept outside the  
body, but even the shortest *in vitro* period renders many of  
them fragile. Absence of visible hemolysis is no criterion  
of the value of the erythrocytes of the stored blood. Of  
much greater significance in this respect are the P compds.,  
in particular adenosinetriphosphate (ATP) and the de-  
hydrases. The labeling of injected erythrocytes with Fe<sup>59</sup>  
is dependable in following their *in vivo* fate only during the  
first 24 hrs. Enzymic myosin detns. of ATP in the stored  
erythrocytes indicate that the content of ATP gradually is  
lowered in these cells and that it completely disappears from  
them in 18 hrs. at 37°.

B. S. Levitsky

Chair, Biochemistry,

(1)

VLADIMIROV, G.Ye.; URINSON, A.P.

Glycine metabolism in cerebral tissues of rats under normal conditions and in amyta-induced sleep [with summary in English].  
Biokhimiia 22 no.4:709-714 Jl-Ag '57. (MIRA 10:11)

1. Kafedra biologicheskoy khimii Voyenno-meditsinskoy ordena Lenina akademii im. S.M.Kirova, Leningrad.

(BRAIN, metabolism,

glycine, in normal cond. & in amyta-induced sleep in rats)

(AMOBARBITAL, effects,

on brain glycine metab. in rats (Rus))

(GLYCINE, metabolism,

brain, eff. of amobarbital-induced sleep in rats (Rus))

BISHARD, P.A.; URINSON, G.S.

Method for calculating economic indices of the comparative evaluation  
of the use of natural gases and coals as industrial fuels. Trudy  
VNIIGAZ no.2:191-206 '58. (MIRA 12:1)  
(Gas as fuel) (Coal)

URINSON, G.

Measuring labor productivity in the natural gas industry.  
Biul.nauch.inform.; trud i zar.plata no.8:3-6 '59.  
(MIR 13:1)  
(Gas industry---Labor productivity)

KOZLOV, A.L.; URINSON, G.S.

Method for calculating the economic indices of gas exploration.  
Trudy VNIIGAZ no.16/24:131-160 '62. (MIRA 15:8)  
(Gas, Natural—Geology)

KOZLOV, A.L.; MALEVANSKIY, V.D.; MINSKIY, Ye.M.; URINSON, G.S.

Selecting the diameter of gas well production casings. Gaz.prom. ?  
no.1:9-14 '62. (XIIA 15:1)  
(Gas wells)

BELOV, K.A.; KOZLOV, A.L.; URINSON, G.S.

Gas industry of Stavropol Territory. Gaz. prom. 7 no.2:7-9 '62.  
(MIRA 17:6)

KOZLOV, A.L.; KULIKOVA, V.D.; URINSON, G.S.

Economic analysis of the development of the North-Stavropol  
gas field. Gaz. prom. 8 no.11:5-11 '63. (MIRA 17:11)

SOKOLOV, V.A.; URINSON, G.S.; KHUDIAKOV, O.I.

Finding the most economical way to develop gas condensate fields  
with a high condensate content. Gaz. delo no.12:40-46 '63.

(MRA 17:10)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut prirodnogo gaza.

KOZLOV, A.L.; URINSON, G.S.

Method of calculating the technical and economic factors for  
the plan of the development of the gas recovery industry. Gaz.  
prom. 9 no.12:10-13 '64. (MIRA 18:3)

URINSON, G.S.

Economic analysis of the development of the gas-producing  
industry of the U.S.S.R. Gaz. delo no.12:3-5 '64. (MIRA 18:2)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut prirodnogo  
gaza.

KOZLOV, A.L.; KULIKOVA, V.D.; URINSON, G.S.

Some problems in the economics of the development of the Gazli  
gas field. Gaz. delo no.4;31-34 '65. (MIRA 18;6)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut prirodnogo  
gaza.

URINSON, Grigorij Solomonovich

[Economics of natural gas production] Ekonomika dobychi  
prirodnoj gaza. Moskva, Nedra, 1965. 156 p.  
(MIRA 18:6)

L 7647-66 EWT(d)

ACC NR: AP5024983

SOURCE CODE: UR/0286/65/000/016/0045/0045

47  
B

AUTHOR: Urinson, L. S.

ORG: none

TITLE: A method for reestablishing the carrier frequency in systems of phase difference modulation, Class 21, No. 173807

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 16, 1965, 45

TOPIC TAGS: carrier frequency, phase shift, phase modulation, phase change, frequency converter

ABSTRACT: This Author Certificate presents a method for reestablishing the carrier frequency in systems of phase difference modulation, using two auxiliary frequencies transmitted for reestablishing the carrier frequency with a phase precision. The auxiliary frequencies and the spectrum of the phase modulated signal are converted by means of a balanced modulator (see Fig. 1). The system is designed to reduce the phase change of the carrier frequency due to phase shifts in filters and contours (meshes) with the frequency drift in the communication channel. At the receiving end, the carrier frequency is converted to the frequency of the

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UDC: 621.376.4

L 7647-66

ACC NR: AP5024983

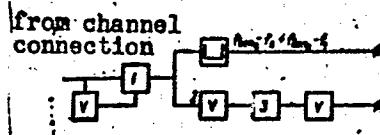


Fig. 1. 1- balanced modulator; 2- narrow band filter; 3- frequency divider

upper auxiliary frequency. The frequency difference is isolated by a narrow band filter and is divided into two. Orig. art. has: 1 figure.

SUB CODE: EC/ SUBM DATE: 02Jun62

Card 2/2

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S/106/62/000/005/005/007  
A055/A101*6, 1200*

AUTHORS: Divnogortsev, G.P.; Urinson, L.S.

TITLE: Simultaneous amplitude and phase correction of communication channels

PERIODICAL: Elektrosvyaz<sup>Vol. 16</sup>, no. 5, 1962, 50 - 53

TEXT: The authors analyze a four-pole network ensuring a simultaneous amplitude and phase correction of communication channels. The four-pole is shown in Figure 1. Starting from the formula for the voltage transmission coefficient  $A_{11} = \dot{U}_1/\dot{U}_2$  of the four-pole under no-load conditions, the authors determine  $A_{11}$  for the case of the minimum number of reactances contained in the four-pole. Assuming that  $\dot{Z}_1 = R$ ,  $\dot{Z}_2 = R_1$ ,  $\dot{Z}_3 = 3R_1$  and  $\dot{Z}_4 = \frac{R}{1 + i R C \omega (1 - \frac{1}{\omega^2 LC})}$  (the four-pole being then represented by the circuit of Fig. 2), they obtain:

$$A_{11} = 4 e^{2 \operatorname{arc} \operatorname{tg} \frac{2 \omega L}{R (1 - \omega^2 CL)}} \quad (2)$$

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Simultaneous amplitude and phase correction ....

The phase angle, that depends on the frequency and on all the elements of the four-pole, is:

$$\varphi = 2 \operatorname{arc} \operatorname{tg} \frac{2 \omega L}{R (1 - \omega^2 CL)} . \quad (3)$$

For their calculations, the authors prefer to use not  $\varphi$ , but the delay time

$$\tau = \frac{d\varphi}{d\omega} . \quad (4) \quad f$$

They find:

$$\tau = \frac{4LCR (1 + \eta^2)}{R^2 C (1 - \eta^2)^2 + 4 \eta^2 L} , \quad (6)$$

where  $\frac{1}{\sqrt{LC}} = \omega_0$ ;  $\frac{\omega}{\omega_0} = \eta$ . The analysis of (6) shows that, if  $R_3 > R_2$  ( $R_2$  and  $R_3$  being, respectively, the resistances included in  $Z_1$  and  $Z_4$ ), the amplitude-frequency characteristic of the four-pole presents a maximum and, if  $R_3 < R_2$ , a minimum at the resonant frequency  $\omega_0$  (Fig. 4); the magnitude of the maximum and of the minimum depends on the relationship between  $R_2$  and  $R_3$ . By varying the values of  $R_2$  and  $R_3$  and maintaining a determined relationship between them,

Card 2/0 3

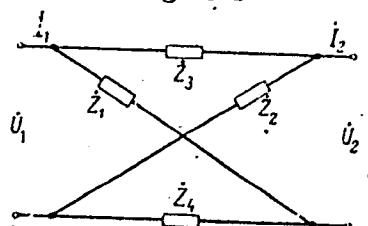
Simultaneous amplitude and phase correction ....

S/106/62/003/005/005/007  
A055/A101

it is thus possible to effect, with the aid of the examined four-pole network, an amplitude and a phase correction within wide limits. These analytical conclusions have been confirmed experimentally. The defects of the described four-pole are the large voltage attenuation introduced by it ( $b = 1.4$  nep), the necessity to connect to its output a high-resistance-input amplifier and the unbalance with respect to ground. The Soviet personalities mentioned in the article are: P.K. Akul'shin, I.A. Koshcheyev, K.E. Kul'batskiy, G.B. Davydov and B.P. Avseyev. There are 5 figures.

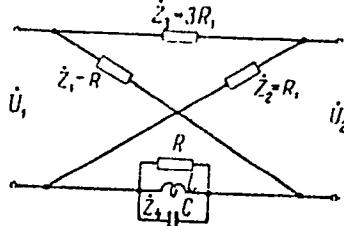
SUBMITTED: June 27, 1961

Figure 1



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Figure 2



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A055/A126

9.3275

AUTHORS: Divnogortsev, G.P., Urinson, L.S.

TITLE: Influence of amplitude-frequency distortions in communication channels on the transmission of pulsed signals

PERIODICAL: Elektrosvyaz<sup>4.17</sup>, No. 1, 1963, 48 - 51

TEXT: The resultant characteristic of the attenuation  $b$  of the telephone channel and the phase equalizer circuit can be considered (Fig. 3) as consisting of 3 components: a constant component  $b_0$  and two oscillatory deviations  $b'_\sim(\omega)$  and  $b''_\sim(\omega)$  with amplitudes  $\frac{\Delta b'}{2}$  and  $\frac{\Delta b''}{2}$ , respectively, i.e.,

$$b = b_0 + b'_\sim(\omega) + b''_\sim(\omega). \quad (1)$$

Deviations  $b'_\sim(\omega)$  are conditioned by the addition of the telephone channel attenuation characteristic and the averaged characteristic of the phase equalizer circuit attenuation. Deviations  $b''_\sim(\omega)$  are determined by the oscillatory deviations of the phase equalizer circuit attenuation characteristic. To simplify further calculations, the authors assume that (1) can be approximated by the following

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A055/A126

Influence of amplitude-frequency distortions in ....  
expression:

$$b = b_0 + \frac{\Delta b'}{2} \cos 2\pi \frac{m' (\omega - \omega_1)}{\omega_2 - \omega_1} + \frac{\Delta b''}{2} \cos 2\pi \frac{m'' (\omega - \omega_1)}{\omega_2 - \omega_1}, \quad (2) \checkmark$$

where  $m'$  and  $m''$  are, respectively, the oscillation periods of  $b'_n(\omega)$  and  $b''_n(\omega)$  in the corrected frequency band. As the presence of  $b_0$  does not alter the amplitude-frequency distortions, formula (2) can be examined under the assumption that  $b_0 = 0$ . To estimate the influence of amplitude-frequency distortions, it is assumed that there is no phase distortion, i.e., that the phase-frequency characteristic is:

$$a(\omega) = k\omega, \quad (4)$$

$k$  being a constant. It is assumed also that the channel attenuation characteristic in the pass-band contains one oscillatory component:

$$b = \frac{\Delta b}{2} \cos 2\pi \frac{m (\omega - \omega_1)}{\omega_2 - \omega_1}. \quad (5)$$

If a single pulse is transmitted through this channel, two additional pulses having the same shape as the main pulse, but a smaller amplitude, will emerge at the channel output, one of them leading the main pulse (the other one lagging) by a

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Influence of amplitude-frequency distortions in ....

S/106/63/000/001/005/007  
A055/A126

time equal to  $\frac{\pi m}{\omega_c}$ , where  $\omega_c = \frac{\omega_2 - \omega_1}{2}$ . The amplitude of these interfering pulses is (for small  $\Delta b$ ):

$$A_{\text{add pulse}} = \frac{\frac{\Delta b}{2}}{2} - 1 \quad 100\% \quad (6)$$

of the main pulse. A graph based on formula (6) shows that the influence of amplitude-frequency distortions in a channel with effect phase correction can be greater than the influence of the residual phase distortions. Conclusions: 1) Phase correction of communication channels alters the amplitude-frequency characteristic of the channels. 2) To obtain minimum distortion of pulsed signals, it is necessary to effect simultaneously (by the progressive approximation method) the correction of both amplitude and phase distortions. There are 5 figures. X

SUBMITTED: July 3, 1962

Card 3/4

URINSON, L.S.

Bridge-type phase shifter with a smooth phase shift from 0 to 360°.  
Elektrosviaz' 17 no.8:70-72 Ag '63. (MIRA 16:8)  
(Phase converters)

URINSON, MOISEY SOLOMONOVICH

N/5  
783.301  
.U7

Planirovaniye Narodnogo Khozyaystva Po Soyuznym Respublikam I Ekonomicheskim  
Rayonam (Planning of national economy by the Union Republic and economic districts)  
Moskva, Gospol. Itizdat, 1955. 124 P. At Head of Title: V Pomoshch'  
Ekonomicheskому Obrazovaniyu Kadrov.

URINSON, Moisey Solomonovich

Planirovaniye Narodnogo Khozaystva Po Soyuznym  
Respublikam i Economiceskim Rayonam. Moskva,  
Gospolitizdat, 1955.

124 p. 20 CM. (V Pomoshch' Ekonomicheskому Obrazovaniyu  
Kadrov)

AUTHOR: Urinson, M. 2-4-6/7

TITLE: Criticism and Bibliography (Kritika i bibliografiya). The RSFSR Statistical Administration "The RSFSR National Economy" (Statisticheskoye upravleniye RSFSR "Narodnoye khozyaystvo RSFSR")

PERIODICAL: Vestnik Statistiki, 1957, # 4, pp 118 - 122 (USSR)

ABSTRACT: The article praises the book "Statisticheskoye Upravleniye RSFSR. 'Narodnoye Khozyaystvo'", which contains a number of important indexes on the economical and cultural construction of the RSFSR as a whole, as well as on the autonomous republics, krays and oblasts belonging to the RSFSR. The book characterizes the achievements of all branches of the RSFSR economy. Some examples of the figures contained in the book are listed in the article, mostly indicating how many times the production capacity of the one or the other area has increased in 1955 compared to the figures of 1913 or 1940. Data on higher educational institutions are also furnished as well as on the numbers of libraries, theaters, clubs, etc. Some data on the growth of the gross production in individual economic districts is also contained in the article. Further, it emphasizes the increasing importance of the eastern districts of the RSFSR in the production of agricultural products.

AVAILABLE: Library of Congress

Card 1/1

URLINSK, Mikhail Solomonovich; KHOLIN, I.A., red.; PONOMAREVA, A.A..  
tekhn.red.

[Planning organization of the national economy in the Union  
Republics] Organizatsiya planirovaniia narodnogo khoziaistva  
v soiuznykh respublikakh. Moskva, Gosplanizdat, 1960. 173 p.  
(MIRA 14:3)

(Russia--Economic policy)

PETROV, A.I., prof.; LESHCHINSKIY, M.I., kand. ekon. nauk; MAKSIMOVA, V.N.,  
dotsent; MAL'YI, I.G., dotsent; MOSKVIN, P.M., dotsent; TITKL'BAUM,  
N.P., dotsent; URINSON, M.S., dotsent; EYDEL'MAN, M.R., kand. ekon.  
nauk; GUREVICH, S.M., red.; GRYAZNOV, V.I., red.; FYATAKOVA, N.D.,  
tekhn. red.

[Course in economic statistics] Kurs ekonomicheskoi statistiki. Izd.3.,  
dop. i perer. Moskva, Gosstatizdat TeSU SSSR, 1961. 507 p.

(MIRA 14:6)

(Statistics)

URINSON, Mikhail Solomonovich; LISOV, V.Ye., red.; PONOMAREVA, A.A.,  
tekhn. red.

[Economic planning in the Union Republics] Planirovanie na-  
rodnogo khoziaistva v soiuznykh respublikakh. Moskva, Eko-  
nomizdat, 1963. 317 p. (MIRA 16:12)  
(Russia--Economic policy)

41723

S/241/62/000/003/001/004  
I021/I215

27 1220

AUTHORS: Urinson, P.M., Bogoyavlenskaya, M.P.

TITLE: Isoserological properties of the blood during  
radiation therapy

PERIODICAL: Meditsinskaya Radiologiya, no. 3, 1962, 20-23

TEXT: Serological changes following ionizing irradiation have been little studied. Ninety patients with signs of radiation sickness due to treatment of neoplasms were examined. The total irradiation dose was 3000 - 31000r. The titre of isoagglutinins was the same as in healthy persons and remained stable during the entire period of observation. The titre of heteroagglutinins

Card 1/2

USSR/Human and Animal Physiology. Blood.

v

Abs Jour: Ref Zhur-Biol., No 6, 1958, 26766.

Author : R.M. Urinson.

Inst : Not given.

Title : A Refinement of the Method of Preparing Anti-Rh Serum in Protein Medium.

Orig Pub: Probl. hematol. i perelivaniya krovi, 1956, 1, No 3, 52-54.

**Abstract:** The feasibility of refining the method of preparing absorbed anti-Rh serum is shown. A 7% albumin solution is best for diluting immune guinea pig serum prior to absorption. The use of 10 and 20% solutions fails to increase the titer of the absorbed serum or to prolong the time over which its activity is preserved. Following dilution with a

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were still of practical use. After a serum was diluted with solutions of albumin and physiological solution, its titer was stable and lasted for a year. Serum with a high titer (1:160) is the most efficient to use for preparing the mixtures. By

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diluting such a mixture, 1 ml of it will yield 100 ml of active preparation. The serum mixtures can also be used for repeated determinations of Rh-factor.

Card : 2/2

URINSON, R. M.

EXCERPTA MEDICA Sec.4 Vol.11/4 Med.Microb. etc. April 58

1078. INVESTIGATION OF GROUP CHARACTERISTICS OF LEUCOCYTES (Russian text) - Urinson R. M. - PROBL. GEMATOL. PEREL. KROVI 1956, 1/4 (49-52)

Group characteristics of leucocytes and their similarity to those of erythrocytes, were investigated. Group agglutinins were absorbed on leucocytes obtained from blood of an opposite group. Attempt to produce agglutination using serum of the same group failed. Also no agglutination was observed when sera of various groups were added to leucocytes obtained from group O blood. It is concluded that group substances of human leucocytes are analogous to those of erythrocytes. Another series of experiments showed that a mass of leucocytes exhibits less affinity to group agglutinins than a corresponding mass of erythrocytes. Nevertheless in leucocyte mass transfusion group characteristics of the leucocytes must be taken into consideration.

(S)

URINSON, R.M.

Possibilities for improving the quality of immune anti-Rh serums.  
Lab.delo 2 no.1:20-22 Ja-F '56. (MLRA 9:10)

1. Iz serologicheskoy laboratorii TSentral'nogo instituta hematologii  
i perelivaniya krovi (dir. - prof. A.A.Bagdasarov), Moskva.  
(BLOOD) (SERUM)

URINSON, R.M., PEKERMAN, S.M.

Rh factor in erythrocytes in the Arabian baboon [with summary in English]  
Probl. genet. i perel. krovi 3 no.4:53-54 Jl-Ag '58 (MIRA 11:8)

1. Iz TSentral'nogo ordena Lenina instituta hematologii i perelivaniya  
krovi (dir. - deyatel'nyy chlen AMN SSSR prof. A.A. Bagdasarov).  
(RH FACTORS,  
in erythrocytes in Abyssinian baboon (Rus))

URINSON, R.M.

Immunogenic properties of leukocytes. Probl. gemat. i perel. krovi  
4 no.6:51-53 Je '59. (MIRA 12:8)

1. Iz serologicheskoy laboratorii (zav. - P. N. Kosyakov) Tsentral'-nogo ordena Lenina instituta hematologii i perelivaniya krovi (dir. - deystvitel'nyy chlen AMN SSSR prof. A.A. Bagdasarov) Ministerstva zdravookhraneniya SSSR.

(LEUKOCYTES

group properties, immunobiol. determ. (Rus))  
(BLOOD GROUPS

group properties of leukocytes, immunobiol. determ. (Rus))

KOSYAKOV, P.N., prof.; URINSON, R.M.

Antigens M and N in leucocytes. Probl. gemit. i perel. kovi 4  
no. 10:3-7 O '59. (MIRA 13:8)

1. Iz TSentral'nogo Lenina instituta gematologii i perelivaniya  
krovi (dir. - deyствител'nyy chlen AMN SSSR prof. A.A. Bagdasarov)  
Ministerstva zdravookhraneniya SSSR i Instituta virusologii imeni  
D.I. Ivanovskogo (dir. - prof. P.N. Kosyakov) AMN SSSR.  
(LEUCOCYTES) (ANTIGENS AND ANTIBODIES)

URINSON, R.M.; ORLOVA, L.D.

Study of the immunological properties of the body in chronic  
and acute leukemias. Probl.gemat.i perel.krovi no.6:28-31 '61.  
(MIRA 14:10)

1. Iz serologicheskoy laboratorii (zav. - prof. P.N. Kosyakov)  
i hematologicheskoy kliniki (zav. - prof. M.S. Dul'tsin) TSen-  
tral'nogo ordena Lenina instituta hematologii i perelivaniya krovi  
(dir. - deystvitel'nyy chlen AMN SSSR prof. A.A. Bagdasarov).  
(LEUKEMIA) (ANTIGENS AND ANTIBODIES)

URINSON, R.M.

Study of the antigen structure of thrombocytes. Probl. hemat.i  
perel. krovi 6 no.1:14-19 '61. (MIRA 14:2)  
(BLOOD PLATELETS) (ANTIGENS AND ANTIBODIES)

URINSON, R.M.; BOGOYAVLENSKAYA, M.P.

Isoserological properties of the blood during radiotherapy.  
Med.rad. no.3:20-23 '62. (MIRA 15:3)

1. Iz TSentral'nogo ordena Lenina instituta hematologii i pereli-  
vaniya krovi Ministerstva zdravookhraneniya SSSR.  
(RADIOTHERAPY) (BLOOD)

ZOTIKOV, E.A.; URINSON, R.M.; PORESHINA, L.P.

Characteristics of antibody formation in skin homotransplantation in rabbits. Folia biol. 8 no.5:317-321 '62.

1. Institute of Haematology and Blood Transfusion, Moscow.  
(ANTIBODY FORMATION) (SKIN TRANSPLANTATION)

AUTHOR: Zotikov, Ye. A.; Urinson, N. N.; Semionastnyy, A. I.,  
Poreshina, L. P.

TOPIC TAGS: isosensitization, skin, homotransplantation, antibody,

transplantation, immunization, tumor, blood group, antigen

All donors had antibodies.

the donor and recipient were of the same blood group. When donor and recipient were of different blood groups, incomplete antibodies were found.

Reaction of both was found in 3 cases. Antibodies were present in 1 case.

ZOTIKOV, Ye.A.; URINSON, R.M.; PORESHINA, L.P. (Moskva)

Sensitive method for detecting weak antibodies. Pat. fiziol.  
i eksp. terap. no.4:71-72 Jl-Ag '63. (MIRA 17:9)

1. Iz TSentral'nogo ordena Lenina instituta hematologii i  
perelivaniya krovi (dir.- dotsent A.Ye. Kiselev).

"APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R001858030001-5

TRANSLATION: Money administered by US CIA performed in a secret letter

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CIA-RDP86-00513R001858030001-5"

"APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R001858030001-5

ACCESSION NR: AF 4045765

SUB CODE: LS

EX-6: 00

APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R001858030001-5"

DUL'TSIN, M.S., prof.; ZOTIKOV, Ye.A.; URINSON, R.M.; UMNOVA, M.A.;  
FAYNSHTEYN, F.E.; SUKYASYAN, G.V.; YARUSTOVSKAYA, L.E.

Immunological studies in homoplastic transfusions of newly  
prepared bone marrow. Probl. gemat. i perel. krovi 8  
(MIRA 17:9)  
no.12:13-17 D '63.

1. Iz gematologicheskoy kliniki (zav.- prof. M.S. Dul'tsin) i  
serologicheskoy laboratorii (zav. Ye.A. Zotikov) TSentral'nogo  
instituta gematologii i perelivaniya krovi (dir.- dotsent A.Ye.  
Kiselev) Ministerstva zdravookhraneniya SSSR.

PUZA, A.V.[deceased]; CHEPOV, P.M.; ZOTIKOV, E.A.; URINSON, R.M.;  
PORESHINA, Lidia P.

Total exsanguination transfusion and kidney homotransplantation in adult dogs in relation to the sensitization of the recipients. Folia biol. (Praha) 9 no.4:250-257 '63.

1. Institute of Experimental Biology and Genetics, Czechoslovak Academy of Sciences, Prague, Institute of Experimental Biology, Academy of Medical Sciences of the U.S.S.R., Moscow, Central Institute of Haematology and Transfusion, Moscow.  
(KIDNEY TRANSPLANTATION) (EXCHANGE TRANSFUSION)  
(ANTIBODY FORMATION) (HEMAGGLUTINATION INHIBITION TESTS)

KISELEV, A. Ye, dotsent; RUTBERG, R.A.; TALLER, A.R.; RODINA, R.I.; PIPUSH,  
N.D.; URINSOF, R.M.; LAVROVA, O.P.; BAKHMAIEVA, V.A.

Plasmapheresis as a way of increasing the resources of donor  
plasma. Probl. gemat. i perel krov. v no.12:3-8 D '64  
(MIRA 18:1)

1. TSentral'nyy ordena Lenina institut gematologii i perelivaniy  
krovi (direktor - dotsent A. Ye. Kiselev) Ministerstva zdravookhra-  
neniya SSSR, Moskva.

URINSON, R.M.

Study of some serological problems in repeated plasmapheresis.  
Probl. gemat. i perel. krovi 9 no.12 1964 (MIRA 181)

1. Immunogematologicheskaya laboratoriya (zav. - Ye.A.Zot'kov)  
TSentral'nogo ordena Lenina instituta hematologii i pereliyaniya  
krovi ( direktor - dotsent A. Ye. Kisalev), Moskva.

"APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R001858030001-5

ZOTIKOV, Ye. A.; POROSHINA, L. P.; MANYSHKINA, R. P.; URINSON, R. M.

"Bound antibodies of skin homografts."

report submitted for 10th Cong, Intl Soc of Blood transfusion, Stockholm,  
3-8 Sep 64.

Inst of Blood Transfusion & Hematology, Moscow.

APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R001858030001-5"

ZOTIKOV, Ye.A.; PORESHINA, L.P.; URINSON, R.M.; MANISHKINA, R.P.

Discovery of fixed antibodies on the cells of skin homografts.  
Pat. fiziol. i eksp. terap. 8 no.6:52-55 N-D '64.

(MIRA 18:6)

1. TSentral'nyy ordena Lenina institut gematologii i perelivaniya  
krovi (dir. - dotsent A.Ye. Kiselev), Moskva.

ZOTIKOV, Ye.A.; VENISHKINA, R.P.; FAYESETEYN, F.E.; URINCOM, R.M.;  
POGESHIM, L.P.

Some aspects of the study of antileukocyte antibodies. Probl.  
gemat. i perel. krovi 9 no.7:3-9 Jl '64.

(MIRA 18:3)

1. TSentral'nyy ordena Lenina institut gematologii i perelivaniya  
krovi (dir. - dotsent A.Ye. Kiselev), Moskva.

ZOTIKOV, Ye.A., kand. med. nauk; Bulavina, N. K.M.

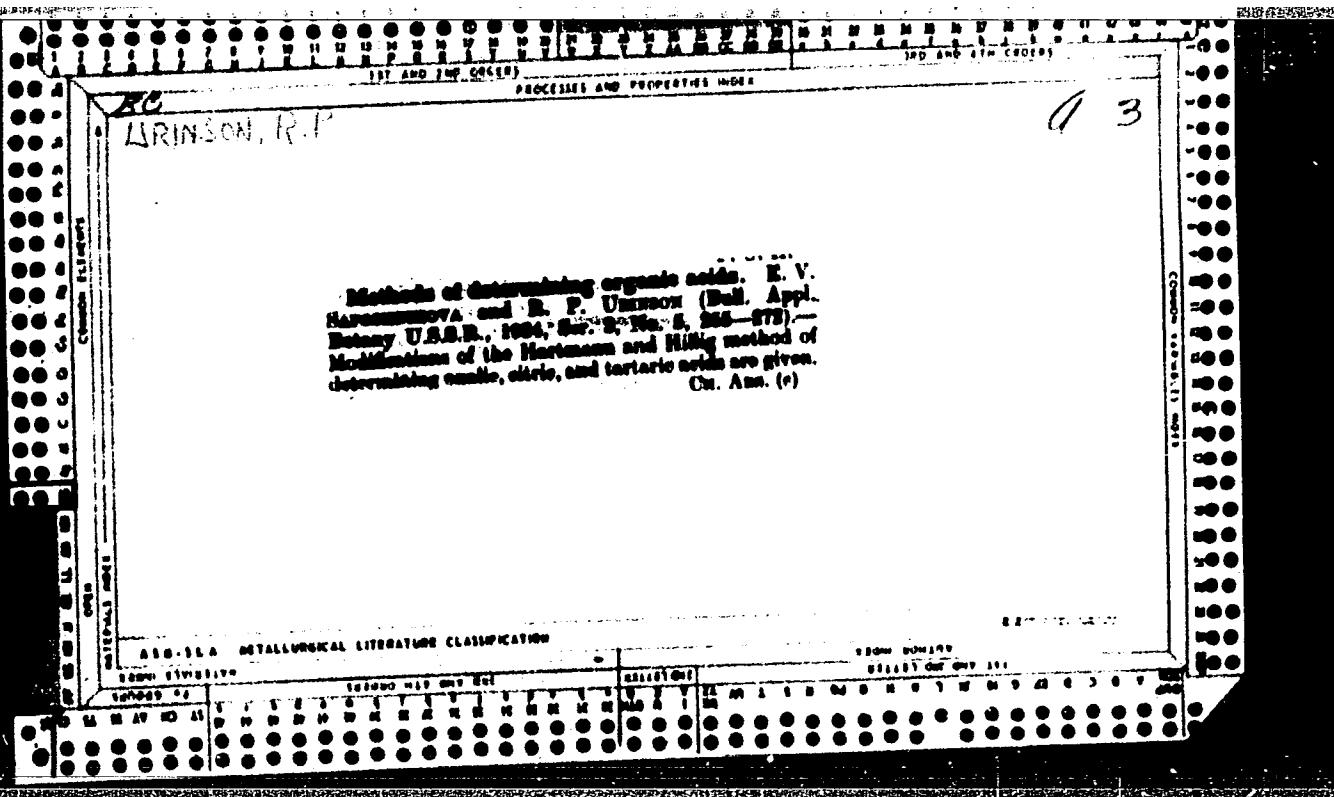
Changes in the antigenic properties of erythrocytes under the effect of some chemical agents. Biul. eksp. biol. i med. SSSR no.7:83-88 Jl '65. (MIKA 15 2)

1. Laboratoriya immunogenetologii (zav.- Feni, med. nauk Ye.A. Zotikov) TSentral'nogo otdeleniya Leningradskogo perelivaniya krovi (direktor - tsentral'nyy A.Ye. Kiselev), Leningrad.

URINSON, R.M.

Study of the Immunologic properties of thrombocytes. Probl. genet.  
i perel. krov'i no.2 '72-13 '75. (M:RA 18-11)

1. Immunogematologicheskaya laboratoriya (zav. Ye.A.Zetikov)  
TSentral'nogo ordena Lenina instituta hematologii i pereliyanija  
krvi (dir. - dotsent A.Ye.Kiselyev), Moskva.



CA

URINSON, R. P.

## PROCESSES AND PROPERTIES INDEX

17

The composition of the essential oils of mutants of the geranium, *Peltigerastrum resonii* Bert., R. P. Urinson, *and Applied Botany, Genetics, Plant Breeding* (U.S.S.R.), Ser. III, No. 10, 67-88 (1956).—Mutants of *Peltigerastrum resonii* had an increased quantity of alka. in the essential oils. The polytypoid phenomenon does not influence the quant. ratio of the individual alka. in the essential oils of geranium but as in the case of other types of mutants (heterozygoids, chromosome aberrations). It is accompanied by a general increase of the alka. in the oil. The presence of stereophenes in the oils of the mutants *P. resonii* No. 14 and No. 8 is due to a partial reversion of the original *P. resonii* to the parental form *P. graveolens* under the influence of the mutations. The superiority of the mutant No. 14 over the others is very apparent by its high citronellol content. J. S. Joffe

COMBINE LITERATURE

COMBINE MATERIALS

## ABERPLA METALLURGICAL LITERATURE CLASSIFICATION

ECONOMIC LITERATURE		TECHNICAL LITERATURE		ECONOMIC	
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S/113/60/000/008/C02/C03  
A002/A001

AUTHOR: Urinson, Ya. Ye.

TITLE: Turning Gears With Setting on Three Technological Holes

PERIODICAL: Avtomobil'naya promyshlennost', 1960, No. 8, pp. 32 - 33

TEXT: In the mass production of single-rim gears it is desirable to perform all turning operations in one setting of the gear blank. This is possible provided that: 1) the face of the nave, located close to the spindle during turning, can be machined through the nave hole; and that 2) the gear blank can be set and clamped on a surface which is not subject to machining. Frequently, gears are found which will meet the first condition, but the extent of rim and nave surfaces not subject to machining is inadequate for clamping, thus a turning in one setting becomes impossible. In these cases, the author suggests drilling three evenly spaced holes into the gear disk and using them for setting. At the Yaroslavskiy motornyy zavod (Yaroslavl' Engine Plant) the turning of a number of gear types has been transferred to vertical multispindle semi-automatic lathes performing the operation in one setting. Three technological holes of 25 mm diameter are drilled into the gear blanks and are chamfered. The machining is performed in six successive operations: a) setting (or removing)

Card 1/2

S/113/60/000/008/002/003  
A002/A001

Turning Gears With Setting on Three Technological Holes

the blank; b) preliminary turning of the rim and boring of the nave hole; c) preliminary machining of the rim and nave faces; d) final turning of the rim and boring of the nave hole; e) final machining of the rim and nave faces, chamfering of the rim and nave; f) reaming of the nave hole. A comparison of gears machined according to the new method and according to the conventional method with several settings showed that the new method provides a better coordination of the surfaces to be machined. The beat of rim faces meets the requirements for gears of the 7th and 8th precision class of FOCT 1643-56 (GOST 1643-56) without any additional machining. At the Yaroslavl Engine Plant, four types of transmission gears are now machined in one setting. In 1959, as a result of introducing this method, approximately 15,000 rubles of wages were saved. The above method can also be used for machining other parts, for example, pulleys. There are 1 figure, 1 table and 1 Soviet reference.

ASSOCIATION: Yaroslavskiy avtomekhanicheskiy tekhnikum (Yaroslavl' Tekhnikum of Automotive Engineering)

Cari 2/2

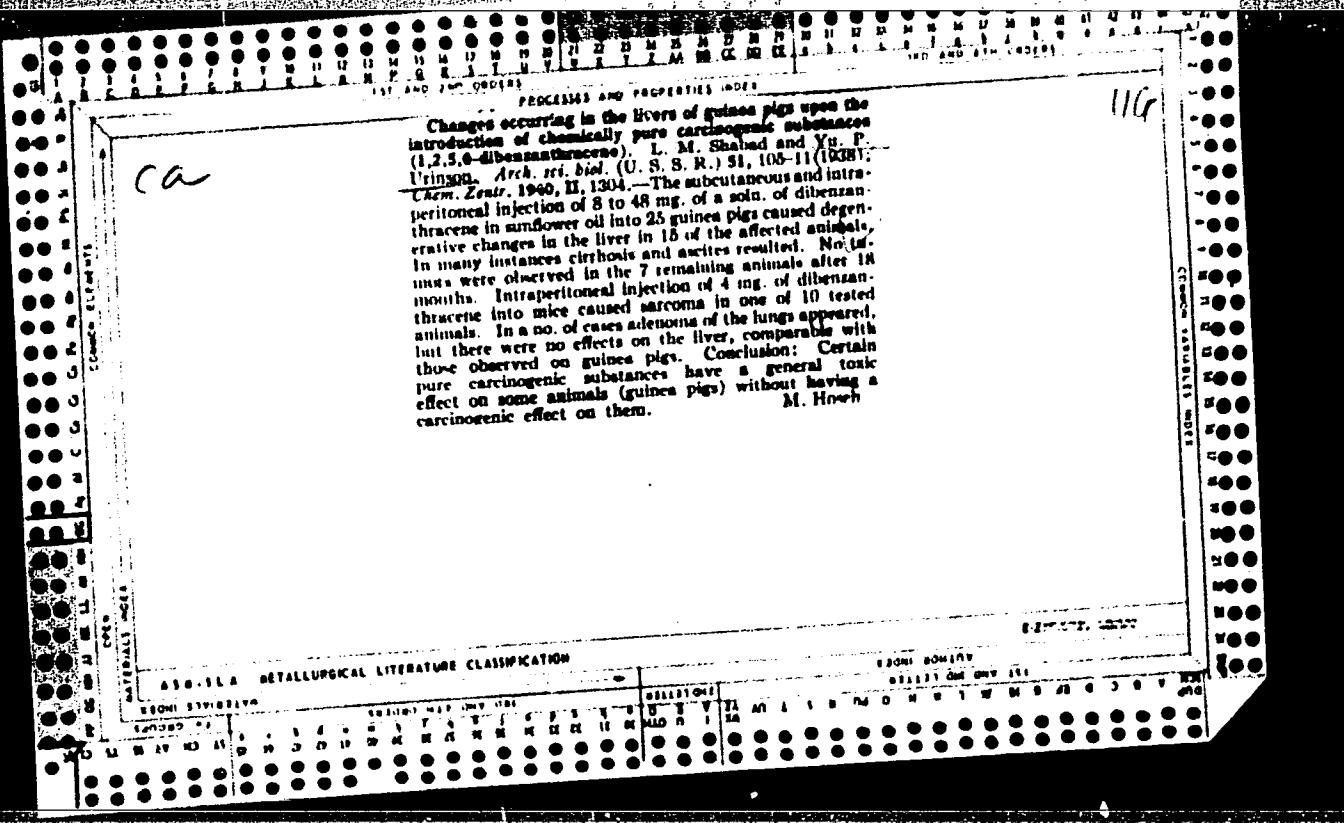
The blood picture after the introduction of a chemically pure substance which produces malignant tumors. Yu. P. Uzinson. *Sovet. Vrachenskij Zhur.* 41, 265-70 (1937); *Chew. Zentr.* 1939, I, 1919.—The blood pictures of 45 mice and 4 rabbits were studied after the injection of 1,2,5,6-dibenzanthracene. No essential change in the blood could be observed during the period prior to the appearance of the tumor. Only after the appearance of the tumor and of hemorrhage from it could marked changes in the blood be detected. Therefore, the hypochromic anemia and the leucocytosis developing cannot be considered as part of the malignant process but are rather to be regarded as secondary phenomena which render the course of the disease more severe. M. G. Moore

M. G. Moore

## **ASCE-31A METALLURGICAL LITERATURE CLASSIFICATION**

APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R001858030001-5"



URINSON Y.R.

HYPERTENSION

1150. Changes in Intracranial Pressure in Essential Hypertension and the Influence of Lumbar Puncture on Blood Pressure and Headache. (Изменение внутреннего давления при гипертонической болезни и влияние спинномозговой пункции на кровяное давление и головные боли)  
Y. R. Urinson. Клиническая Медицина [Klin. Med., Mosk.] 27, No. 7, 55-61, July, 1949. 10 refs.

A series of 68 hypertensive patients, aged 34 to 68 years, were examined. Those patients with raised intrathecral pressure were principally those with severe persistent headache in the later stages of the disease. The raising of intrathecral pressure depended not on the arterial pressure but on the phase of the disease. Papill-oedema was not a constant accompaniment of raised intrathecral pressure. Lumbar puncture had no appreciable effect on the arterial pressure and decreased the headache only transiently and insignificantly.

Jeffrey Boss

Abstracts of World Medicine Vol 7 1950

URINSON, Yu.P. (Leningrad)

~~Differential diagnosis of renal diseases.~~ Klin. med. 31 no.11:85-90  
(MLB 6:12)  
N '53.

1. Iz fakul'tetskoy terapevcheskoy kliniki (ispolnyayushchiy  
obyasannost' direktora - professor T.S. Istamanova) I Leningradskogo  
meditsinskogo instituta im. I.P. Pavlova. (Kidneys--Diseases)

URINSON, Yu.P.; GOL'DBERG, V.A. (Leningrad)

Observations of a case of Felty's syndrome treated by  
splenectomy. Klin.med.33 no.7:84-87 J1 '55.(MLRA 8:12)

l. Iz fakul'tetskoy terapevticheskoy kliniki (dir.-prof.  
T.S.Istamanova) I Leningradskogo meditsinskogo instituta  
imeni akad. I.P.Pavlova.

(ARTHRITIS, RHEUMATOID,  
Felty's synd. surg., splenectomy)

(SPLEEN, surgery,  
excis. in Felty's synd.)

USSR/Human and Animal Physiology - (Normal and Pathological).  
Nervous System. Electroencephalogram of Man.

T

Abs Jour : Ref Zhur Biol., No 4, 1959, 17924

Author : Urinson, Yu.P.

Inst :

Title : Electroencephalographic Changes in Patients with Neurosis  
of Neurasthenia Type.

Orig Pub : Zh. nevropatol. i psichiatrii, 1957, 57, No 12, 1457-  
1462

Abstract : In 25 of 50 investigated patients, EEG at rest did not differ from EEG of healthy people. Stimulation with light induced the disappearance of alpha-waves, increase of beta- activity or general weakening of electric activity. In 25 other investigated subjects, in the background registrations either beta-rhythm (in stimulated patients) or low electric activity (in clinical picture of depression) were prevalent. Reaction to light was

Card 1/2

USSR/Human and Animal Physiology - Normal and Pathological).  
Nervous System. Electroencephalogram of Man.

T

Abs Jour : Ref Zhur Biol., No 4, 1959, 1792<sup>4</sup>

indistinct. -- A.M. Ryabinovskaya

Card 2/2

- 93 -

URINSON, Yu.P.; PUSHINSKAYA, M.M.

Siderocytes and sideroblasts. Probl.gemat.i perel.krovi no.7:  
25-30 '61. (MIRA 14:9)

1. Iz fakul'tetskoy terapeuticheskoy kliniki (zav. - prof.  
T.S. Istemanova) I Leningradskogo meditsinskogo instituta  
imeni akad. I.P. Pavlova.  
(ANEMIA) (ERYTHROCYTES)

TUSHINSKAYA, M.M.; URINSON, Yu.P.

Influence of the spleen on hematopoiesis. Probl.gemat.i perel.  
krovi no.8:23-30 '61. (MIRA 14:9)

1. Iz kafedry fakul'tetskoy terapii (zav. - prof. T.S. Istamanova)  
I Leningradskogo meditsinskogo instituta imeni I.P. Pavlova.  
(SPLEEN—DISEASES) (HEMATOPOIETIC SYSTEM)

URINSON, Yu.P., kand.med.nauk

So-called hemoglobinopathies. Terap. arkh. 34 no.12:80-84 D'62.  
(MIRA 16:6)

1. Iz fakul'tetskoy terapeuticheskoy kliniki (zav. - prof. T.S. Istamanova) I Leningradskogo meditsinskogo instituta imeni akademika I.P.Pavlova.  
(ANEMIA) (HEMOGLOBIN)

1/a.

Subject : USSR/Electricity AID P - 2923  
Card 1/1 Pub. 26 - 20/32  
Author : Urintsev, Ya. S., Eng.  
Title : Additional routine tests of insulation of the front sections of turbogenerators stators windings  
Periodical : Elek.sta., 7, 52, J1 1955  
Abstract : Routine tests of turbogenerator stators are described in detail. Suggestions are made on repairs and some recommendations on tests are presented. One diagram.  
Institution : None  
Submitted : No date

URINTSEV, Ya.S., inzhener.

Checking soldered connections of stator and rotor windings of  
electric machines. Elek.sta. 27 no.8:52-54 Ag '56. (MLRA 9:10)

(Electric machinery--Testing) (Electric measurements)

URINTSEV, Ya.S., inzh.

Using current-measuring pliers for determining the breakdown  
location in stator windings of electric machinery. Elek.sta.  
29 no.11:38-39 N '58. (MIRA 11:12)  
(Electric machinery--Testing)

SOV/91-59-8-11/28

8(6), 14(6)

AUTHOR: Urintsey, Ye.S., Engineer

TITLE: Defective Parts of Turbogenerator Stators

PERIODICAL: Energetik, 1959, Nr 8, pp 16-17 (USSR)

ABSTRACT: The author states that the condition of contact joints connecting turbogenerator stator windings with leadout buses must be carefully checked by visual inspection and resistance measurements. In addition, manufacturers of turbogenerators must tin-plate current-carrying threads of leadout rods and connectors. The author mentions three examples of poor contacts between turbogenerator leadout rods and bus bars. During the operation of a 30,000 kw turbogenerator TV2-30-2, an excessive heating of a connector between a bus bar and a stator winding leadout was observed. After the generator was stopped, it was found that the connector was welded to the leadout rod. The other connectors were easily removed from the rods although their bolts were tightened. The arrangement of stator winding leadout rods and connectors is shown in fig.1. The poor contact was caused by the

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SOV/91-59-8-11/2S

Defective Parts of Turbogenerator Stators

inadequate slot dimensions in the split connector. For this reason the slot was enlarged from 2 mm to 4 mm on a milling machine. At a TV-50-2 50,000 kw turbogenerator, dc stator winding resistance measurements showed deviations of 5.3%, while the permissible tolerance is 3-3.5%. Additional measurements showed that the resistance differences were caused by poor contacts between stator winding leadout rof threads and connectors. The threads were dirty and not tin-plated. The threads were cleaned and covered with POS-40 solder. The leadout connectors of three other identical turbogenerators were also dirty and not tinned. At a TGV-25 25,000 kw turbogenerator it was found during a basic overhaul that the bolts of one connector were loose and close to a breakdown. There are 2 diagrams.

Card 2/2

URINTSEV, Ya.S., inzh.

Unique features in the removal of the retaining rings from  
the turbogenerator rotor. Energetika 8 no.3:22-23  
Mr '60. (MIRA 13:6)  
(Turbines--Maintenance and repair)

URINTSEV, Ya.S., inzh.

Reconstruction of the rotors of turbogenerators with a power rating of 50 milliwatts. Elek. sta. 31 no.3:80-82 Mr '60.  
(MIRA 13:8)

(Turbogenerators)

URINTSEV, Ya. S., inzh.

Defects in soldered connections of turbogenerator  
stator windings and measurements taken to correct  
them. Elek.sta. 31 no.4:85-87 Ap '60. (MIRA 13:7)

(Turbogenerators--Windings)

URINTSEVA, R., GOLUBEV, N. and FILATOVA, A

"Ways for the Liquidation of Taeniases in Crimea Colast'."

Tenth Conference on Parasitological Problems and Diseases with Natural  
Reservoirs, 22-29 October 1959, Vol. II, Publishing House of Academy of  
Sciences, USSR, Moscow-Leningrad, 1959.

Crimean Scientific Research Station for Veterinary and Epidemiology Station  
(Simferopol')

URIS, G.

Moving-Picture Theaters.

New motion picture theater in Novoradyolyhsk, Kinomekhanik no. 1, 1952.

9. Monthly List of Russian Accessions, Library of Congress, June 1953? Unclassified.

111-102-110-20219  
PROCESSES AND PROPERTIES INDEX  
RECEIVED  
Add-base indicators in liquid sulfur dioxide. A. I.  
Hausenheide and M. I. Uribe. "Add Pyrolysis, U. H.  
S. S. T., 40-10 (1967) (in German); cf. C. A. 66, 6747.  
The Brønsted theory (C. A. 22, 4728) is applicable to acid-  
base equilibria in liquid SO<sub>2</sub>. Color changes for the com-  
mon indicators are given.  
W. George Parks

SOV/92-58-7-27/37

AUTHOR: Uristembayev, U., Senior Engineer

TITLE: Among the Oilmen of Uzbekistan (U neftyanikov Uzbekistana)

PERIODICAL: Neftyanik, 1958, Nr 7, p 29-30 (USSR)

ABSTRACT: The author, who is an engineer at the Kazakhstanneft' Association, describes his impressions of a visit to the oilmen of the Fergana region. He admits that in the field of petroleum production the Fergana oil men outstripped their Kazakhstan competitors. Although the 1957 annual petroleum production plan of the Kazakh SSR was overfulfilled and the production cost reduced, still better results were attained in Fergana, especially in the field of petroleum recovery. In 1957 the Kazakhstanneft' Association introduced such advanced methods as formation flooding, gas injection, etc., which all help to maintain pressure in depleted oil wells. On the other hand, the outstanding progress made in the field of oil and gas production in Fergana is to be attributed mostly to the implementation of practical suggestions by staff members of the Fergana enterprises, and to the

Card 1/3

SOV/92-58-7-27/37

Among the Oilmen of Uzbekistan

introduction of new petroleum production equipment, among which the PPU-2 electrically driven water pumps play an important role. New machinery was also introduced there to facilitate oil well reconditioning operations. As a result, the time needed for completion of these operations was reduced and a considerable amount of material was saved. The Uzbekistan oilmen are continuing their campaign against petroleum product losses, and they have modified and improved the oil well stuffing boxes and packers. The Alamyshnik oilmen were among the first to take advantage of remote control systems. In the opinion of the author, it is time to introduce remote control in the Dossor and Makat oilfields located in Kazakhstan. New methods of assembling and installing derricks, which are applied in Fergana, should also be used by the Kazakhstan drillers. They should acquire new tools and equipment which are already used in Fergana. Considerable efforts were made in Fergana to gather and utilize oil well gas. Besides the RMK-4 compressors the PKU-V-2 compressor is being used successfully in Fergana and it is recommended that compressors of this type be used in the Kulsary and Koshkar oilfields, where a considerable quantity of oil well gas is being

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SOV/92-58-7-27/37

Among the Oilmen of Uzbekistan

flared. The author emphasizes that the qualification level of the Fergana drillers is much higher than that of the Kazakhstan Association drillers and he explains this fact by the better on-the-job training received by the Fergana drillers and the systematic testing of their skill.

ASSOCIATION: ORKTIZ ob"yedineniya Kazakhstanneft' (ORKTIZ of the Kazakhstanneft' Association)

1. Petroleum industry--USSR      2. Industrial equipment--USSR

Card 3/3

KITAYEV, G.A.; URITSKAYA, A.A.; MOKRUSHIN, S.G.

Experimental studies of laminar systems. Part 30: Kinetics of  
the formation of thin cadmium sulfide films on a glass surface.  
Koll.zhur. 27 no.3:379-382 My-Je '65.

(MIRA 18:12)

1. Ural'skiy politekhnicheskiy institut imeni Kirova, Sverdlovsk.  
Submitted July 6, 1963.

URITSKAYA, A.A.; KITAYEV, G.A.; MOKRUSHIN, S.G.

Experimental study of laminar systems. Part 31: Kinetics and mechanism  
of the formation of cadmium sulfide films on the glass surface. Koll.  
zhur. 27 no.5:767-772 S-0 '65. (MIRA 18:10)

1. Ural'skiy politekhnicheskiy institut imeni Kirova.

KITTEL'EV, G. S.; URTIKAYA, A. P.; MUSKUDZHEN, S. G.

Conditions for the chemical precipitation of thin cadmium sulfide films on a solid surface. Zhur. fiz. khim. 39 no. 8  
(MIRA 12:9)  
2065-2066 Ag '65.

2. Ultrathin polycrystalline cadmium sulfide.

KITAYEV, G.A.; MOKRUSHIN, S.G.; URITSKAYA, A.A.

Experimental studies of laminar systems. Part 29: Conditions for  
the formation of thin cadmium sulfide films on a glass surface.  
Koll. zhur. 27 no.1:51-56 Ja-F '65. (MIRA 18:3)

1. Ural'skiy politekhnicheskiy institut imeni Kirova, Sverdlovsk.

ACCESSION NR: A5014

539.216.2

AUTHOR: Kitayev, G. A.; Urtskaya, A. A.; Hokrushin, S. G.

TITLE: Experimental studies of laminar systems. Part 30. Kinetics of formation  
of thin cadmium sulfide films at the surface of glass

SOURCE: Kolloidnyy zhurnal, v. 27, no. 3, 1965, 379-382

TOPIC TAGS: cadmium sulfide, thin film, thiocarbamide, glass coating, colorimetric  
analysis

ABSTRACT: The formation of cadmium sulfide took place in accordance with the ionic  
reaction  $\text{Cd}^{2+} + \text{S}^{2-} + \text{C}_2\text{H}_4 \rightarrow \text{CdS}$ . Since ionic reactions in solutions are faster than  
molecular ones, the authors based the determination of thiourea as the rate-  
determining factor. The authors used thiourea, thiocarbamide, and thiobisulfite  
as thione reagents to determine the cadmium concentration, while the autocatalytic accumulation  
of CdS in the reagent solution. The experimental data were treated in terms  
by using the kinetic equation of an autocatalytic reaction:

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ACCESSION NO. 86-1163

$$K = \frac{1}{t(a+b)} e^{-\frac{x}{a+b}}$$

where  $a$  is the initial number of aluminum tetraammine,  $b$  is the initial number of ammonia molecules, and  $t$  is the time.

RECORDED BY: [unclear]

FILED BY: [unclear]

SUBMITTED 06 Jul 163

ENCL: [unclear]

NO REF SOV: 003

OTHER: 002

L 27900-66

ACCESSION NR: AP5024023

UR/0069/65/027/005/0761/0772  
541.18.048

B

AUTHOR: Uritskaya, A. A.; Kitayev, G. A.; Mokrushin, S. G.

TITLE: Experimental studies of laminar systems. Part 31. Kinetics and mechanism of formation of cadmium sulfide films on a glass surface

SOURCE: Kolloidnyy zhurnal, v. 27, no. 5, 1965, 767-772

TOPIC TAGS: cadmium sulfide, colloid, chemical reaction kinetics, chemical dispersion

ABSTRACT: The kinetics of formation of colloidally dispersed cadmium sulfide in aqueous alkaline solutions with the use of thiourea were studied between 15 and 45°C in closed vessels, in which thicker films of better quality are obtained than in open vessels. The process was shown to be heterogeneous, autocatalytic, and catalyzed by hydroxyl ions and by the surface of the solid phase dispersed in the solution. The order of the reaction with respect to the alkali, ammonia, and thiourea was determined. The formation, growth, and structure of the cadmium sulfide films depend on the course of generation of primary colloidal particles of the dispersed phase. "The authors express their thanks to Prof. G. V. Skrotsky and Cand. Phys. Sci. O. K. Shabalina for assistance in work  
Card 1/2

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L 27900-66  
ACCESSION NR: AP5024023

O  
with the electron microscope." Orig. art. has: 7 figures, 2 tables, and 5 formulas.

ASSOCIATION: Ural'skiy politekhnicheskiy institut im. S.M. Kirova (Ural Polytechnic Institute)

SUBMITTED: 12Jun64

ENCL: 00

SUB CODE: IC, CC

NO REF SOV: 001

OTHER: 002

Card 2/2 CC

L 1647-66 EWT(m)/EWP(i)/EWP(t)/EWP(b) LIP(c) JD/JW

ACCESSION NR: AP5021426

UR/0076/65/039/008/2065/2066

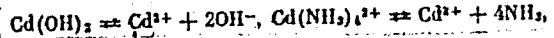
541.11

AUTHOR: Kitayev, G. A.; Urtskaya, A. A.; Mokrushin, S. G.TITLE: Conditions of chemical deposition of thin cadmium sulfide films on a solid surface

SOURCE: Zhurnal fizicheskoy khimii, v. 39, no. 8, 1965, 2065-2066

TOPIC TAGS: cadmium sulfide, thin film, thiourea, thermodynamic calculation

ABSTRACT: The process of deposition of cadmium sulfide films from aqueous solutions (with the use of thiourea as the sulfiding agent) is treated thermodynamically. The treatment consists in a graphical solution of the equations describing the equilibria



The equations

$$\text{pH} = \text{pK}_{\text{H}_2\text{O}} - 1/2 \text{ SP} + 1/2 \text{ p}[\text{Cd}^{2+}] \quad (1)$$

(where  $\text{pK}_{\text{H}_2\text{O}} = 10^{-14}$  is the ion product of water at 25°C and SP is the solubility

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ACCESSION NR: AP5021426

product) and

$$4p[NH_3] = pK + p[Cd(NH_3)_3^{2+}] - p[Cd^{2+}], \quad (2)$$

are solved graphically. The graph is used to find the relative concentrations of  $OH^-$  and  $NH_3$ , or pH and  $p[NH_3]$ , at which cadmium hydroxide is formed in the solution. Thus, the thermodynamic method describes the decomposition of thiourea with the evolution of  $S^2$  ions and the resulting formation of cadmium sulfide and its deposition as a mirror film on any solid surface. The method also makes it possible to simplify the system by eliminating the alkali and using only two reagents - the cadmium salt and thiourea. Orig. art. has: 1 figure and 6 formulas.

ASSOCIATION: Ural'skiy politekhnicheskiy institut (Ural Polytechnic Institute)

SUBMITTED: 04Jan65

ENCL: 00

SUB CODE: GC

NO REF SOV: 003

OTHER: 005

Card 2/2 GP

I 43715-66 EWT(m)/EWP(t)/ETI IJP(c) JD  
ACC NR: AP6030764 (A) SOURCE CODE: UR/0363/66/002/009/1554/1559

AUTHOR: Kitayev, G. A.; Uritskaya, A. A.

58  
B

ORG: Urals Polytechnical Institute im. S. M. Kirov (Ural'skiy politekhnicheskiy institut)

TITLE: Kinetics of chemical deposition of cadmium sulfide films 4  
27 27

SOURCE: AN SSSR. Izvestiya. Neorganicheskiye materialy, v. 2, no. 9, 1966,  
1554-1559

TOPIC TAGS: cadmium sulfide, semiconducting film, chemical deposition, chemical reaction kinetics, optic coating

ABSTRACT: The authors continued their earlier studies of the kinetics and mechanism of the known chemical process of deposition of cadmium sulfide mirror-like films on a glass substrate from the thiourea-containing, aqueous basic solutions. The kinetics of two interrelated processes: accumulation of CdS in the solution and growth of CdS films on the substrate were studied experimentally. Similarity in the mechanism of the two processes was deduced from comparison of their rate constants which were calculated from the earlier established kinetic equations and new experimental data. The kinetic equations which describe the two processes were shown to be identical. Accordingly, both processes involve the same mechanism -- deposition of CdS, a product of a heterogeneous chemical reaction, either on colloidal CdS particles suspended in the

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ACC NR: AP6030764

solution or on the CdS coated substrate. A single kinetic equation was proposed to describe qualitatively the two simultaneous processes. A procedure for chemical deposition of CdS films was established on the basis of this kinetic equation. Deposition should be carried out in two consecutive steps from two solutions containing different  $[OH^-]/[NH_3]^3$  ratios. The optimum  $[OH^-]/[NH_3]^3$  ratios in the solutions were determined experimentally. Films up to 175  $\mu$  thick may be grown by using the described procedure. Orig. art. has: 3 figures and 9 formulas. [JK]

SUB CODE: 07/ SUBM DATE: 01Oct65/ ORIG REF: 007/ OTH REF: 005/ ATD PRESS:  
5074

Card 2/2 hs

SVYATKOV, Sergey Nikolayevich, dots., kand. tekhn. nauk; KORSHUNOV, A.N., dots., kand. tekhn. nauk, retsentent; PAUSTOVSKIY, G.A., otv. red.; BEZGODOVA, L.V., red.; URITSKAYA, A.D., tekhn. red.

[Intrafactory transportation; textbook for term and diploma projects (for students of the faculty of woodworking technology)] Vnutrizavodskii transport; uchebnoe posobie k kursovomu i diplomnomu proektirovaniyu (dlia studentov fakulteta mekhanicheskoi tekhnologii drevesiny). Leningrad, Vses. zaochnyi lesotekhnich. in-t, 1963. 164 p. (MIRA 17:1)

1. Starshiy prepodavatel' kafedry soprotivleniya materialov i detaley mashin Vsesoyuznogo zaochnogo lesotekhnicheskogo instituta (for Paustovskiy).

1. URITSKAYA, B.
2. USSR (600)
4. Folk Songs, Mordvinian
7. Mordvinian folk songs, Sov.muz. 14 no. 2, 1950.

9. Monthly List of Russian Accessions, Library of Congress, APRIL 1953, Uncl.

S/852/62/000/000/008/020  
B124/B101

AUTHORS:

Aronson, Yu. P., Uritskaya, M. Ya.

TITLE:

Furane resin FL-2 (FL-2) examined for its suitability as a lining for chemical apparatus

SOURCE:

Primeneniye polimerov v antikorrozionnoy tekhnike. Ed. by I. YA. Klinov and P. G. Udyma. Moscow, Mashgiz, 1962. Vses. sovjet nauchnotekhn. obshchestv., 61-66

TEXT: The degree to which FL-2 furane resin can be hardened by thermal treatment under different conditions was examined; also its chemical stability, adhesion, corrosive action on metals, and suitability for use in the impregnation of graphite plates. Cement based on FL-2 resin is hardened without heating, using the catalytic action of acids or substances that form acids when hydrolyzed. Graphite having a grain size of 20-30  $\mu$  was used as a filler. The rate of hardening was ascertained by the Vicat method. Addition of equimolecular amounts of  $H_2SO_4$  and  $Fe_2(SO_4)_3$  accelerated the hardening process more than HCl. The activity of sulfo acids and of sulfo chlorides rises with decreasing molecular weight. When

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S/652/62/000/000/008/020  
B124/B101

Furan resin #1-2 (FL-2) examined...

FL-2 resin has been kept at 120°C for 5 hrs, only 1.2% can be extracted with acetone, whereas 18.2% can be extracted if there has been no heat treatment. After heat treatment the cement withstands boiling aqueous solutions of non-oxidizing mineral acids and organic acids as well as 30% NaOH. When kept at 200°C for 9 hrs the resin becomes stable even against organic solvents, only 0.15% of it remaining unhardened. Adhesion of cement to steel measured 16.2 kg/cm<sup>2</sup> when it was based on FL-2 resin using p-chlorobenzene sulfonic acid, 28.2 kg/cm<sup>2</sup> using a mixture of phenyl urethane sulfochloride and sulfuric acid, 30.3 kg/cm<sup>2</sup> with a mixture of Fe<sub>2</sub>(SO<sub>4</sub>)<sub>3</sub> and H<sub>2</sub>SO<sub>4</sub>. The drop in adhesion virtually to zero after 100 hrs heat treatment at 100°C is attributed to the corrosive action of the accelerators, among which p-chlorobenzene sulfonic acid shows the lowest rate of corrosion (0.0006 g/m<sup>2</sup>.hr) and iron chloride the highest (0.09 g/m<sup>2</sup>.hr). The most suitable anti-corrosive undercoats are bakelite varnish containing graphite and water glass containing sodium silicofluoride. The following method of impregnation is recommended: Graphite plates are so placed in a metallic vessel that they do not touch one another or the walls of the vessel. Then FL-2 resin is added along with 0.04 g of p-phenyl

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Furane resin 4n -2 (FL-2) examined...

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B124/B101

urethylene sulfochloride per kg of resin; the vessel is put into an autoclave and heated to 40-45°C; the pressure in the autoclave is lowered to 12-15 mm Hg, maintained for 30 min, then raised to 3 at for 30 min, and finally lowered to 1 at. The plates are removed, wiped with a pad soaked in acetone, and replaced in the autoclave; the pressure is increased to 3 at and the temperature is kept at 120°C for 5 hrs. The resin can be used for impregnation three times. There are 1 figure and 4 tables.

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy institut im. S. Ordzhonikidze (All-Union Chemical and Pharmaceutical Scientific Research Institute imeni S. Ordzhonikidze)

Card 3/3